

UNITED STATES PATENT OFFICE.

ABRAM L. BOWER, OF BOYERTOWN, PENNSYLVANIA.

DENTAL PREPARATION FOR USE IN THE OPERATION OF CAPPING PULPS.

SPECIFICATION forming part of Letters Patent No. 731,849, dated June 23, 1903.

Application filed January 3, 1903. Serial No. 137,728. (No specimens.)

To all whom it may concern:

Be it known that I, ABRAM L. BOWER, a citizen of the United States, residing at Boyertown, in the county of Berks and State of Pennsylvania, have invented a new and useful Dental Preparation to be Used in the Operation of Capping Pulps, of which the following is a specification.

My discovery is a combination of thymol and oxid of zinc, which forms a hard and uniform mass which is an ideal combination for capping pulps.

The preferred manner of preparation is as follows: Melt the thymol on the surface of a sheet of glass or on the smooth surface of a flexible material like a sheet of tin or other metal or in a very shallow vessel. Then drop the oxid of zinc into the melted thymol until the latter is nearly taken up by the powder. Then the mixture may be manipulated by stirring, shaking, or otherwise, making a semi-fluid mass, which soon hardens and which may then be cracked or broken into pieces of any desirable size and then stored in stoppered bottles. In hot weather the mixture may be cooled to facilitate the "setting" of the mass. No definite proportions need be observed in compounding these materials except that the quantity of the second ingredient must not be too great.

Before the plastic mass "sets" the precaution should be taken to spread the mass out over the smooth surface, so as to form a cake or layer not more than from one-eighth to one-sixteenth of an inch in thickness.

The manner of using the preparation is as follows: When it is desired to cap a dental pulp or to place a non-conductive lining in

the bottom of a dental cavity, the cavity is dried, and the points of a pair of pliers are heated in the flame of a spirit-lamp and then touched to a crystal of thymol, which melts and flows up the pliers by capillary attraction. The pliers are permitted to cool until of about the temperature of the body. The proper temperature can be determined by touching the side of the pliers on the back of the hand. Then the pliers are touched to the bottom of the cavity and opened, permitting the thymol to flow over the bottom of the cavity. A piece of the combination of thymol and the second ingredient is then touched to the fluid, causing it to adhere. A ball-burnisher is then heated slightly, and the preparation is touched with it. It becomes fluid and covers the exposed pulp and immediately hardens. Any excess of the material can then be picked or broken away readily and a filling can be inserted immediately.

This preparation is very hard and is somewhat brittle. It has decided germicidal and non-conductive properties.

What I claim as new, and desire to secure by Letters Patent, is the following:

The herein-described combination of thymol with oxid of zinc, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ABRAM L. BOWER.

Witnesses:

MARY L. BOWER,

SAMUEL L. BOWER.